

Product Datasheet



BU Powder Coatings

Interpon AC

AkzoNobel
Tomorrow's Answers Today

Product Description

The **Interpon AC** range of powders offer significant advantages to users of powder coatings. They maintain all of the film performance attributes of conventional powders, but with much improved application properties. They can be sprayed on conventional equipment and are compatible* with standard powders but give a more uniform coverage, and in particular give improved coverage in Faraday Cage areas.

Interpon AC powders are available in a range of chemistry types and colours in gloss and reduced gloss finishes, and are always custom matched to the user's requirements.

Powder Properties

Chemical type	Various - depends on end use
Particle Size	Suitable for spray application
Specific gravity	1.2-1.7 g/cm ³ depending on colour
Storage	Dry cool conditions below 25°C
Shelf life	12 months
Sales Code	5-series
Stoving schedule	To match user's requirements

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only. Actual product performance will depend upon the circumstances under which the product is used.

Substrate	Mechanical tests: Polished Steel Chemical & durability tests: Steel
Pretreatment	Zinc phosphate
Film Thickness	50 microns
Stoving	10 minutes at 180°C (object temperature)

Mechanical Tests

Adhesion	BS EN ISO2409 (2mm Crosshatch)	Gt 0
Erichsen Cupping	ISO1520	Pass >7mm
Hardness	BS EN ISO1518 (2000gms)	Pass - no penetration to substrate
Impact	BS3900-E3	Pass 2.5 joules direct and reverse
Flexibility	ISO6860 (Conical Mandrel)	Pass 3mm

Chemical and Durability Tests

Salt Spray	ISO7253 (250 hours)	Pass - no corrosion creep more than 2mm from scribe
Cyclic Humidity	BS3900-F2 (1000 hours)	Pass - no blistering or loss of gloss
Distilled Water Immersion	BS3900-F7 (240 hours)	Pass - no blistering or loss of gloss
Chemical Resistance	Generally excellent resistance to most acids, alkalis and oils at normal temperatures	
Exterior Durability	Some chalking after 6-12 months continuous outdoor exposure but less than pure epoxies. Protective properties not impaired.	
Colour Stability at elevated temperatures	Good - satisfactory for continuous exposure up to 125°C	

Interpon
powder coatings
EVERY COLOR IS GREEN

Pretreatment	Aluminium, steel or Zintec surfaces to be coated must be clean and free from grease. Iron phosphate and particularly lightweight zinc phosphating of ferrous metals improves corrosion resistance. Aluminium substrates may require a chromate conversion coating.
Application	Interpon AC powders can be applied by manual or automatic electrostatic spray equipment. The full benefits are realised on automatic equipment, or automatic with manual touch-in. Unused powder can be reclaimed using suitable equipment and recycled through the coating system. Best results are normally achieved when AkzoNobel technical service personnel help to optimise the running conditions on-line.
Additional Information	For further details on powder properties and film performance of Interpon AC please contact AkzoNobel.
Safety Precautions	Please consult the Material Safety Datasheet (MSDS)

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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